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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/035,154	01/04/2002	Makoto Nokita	03560.002974	1768	
5514	7590 03/09/2004		EXAM	EXAMINER	
	ICK CELLA HARPE	HO, AL	HO, ALLEN C		
-	FELLER PLAZA K. NY 10112		ART UNIT	PAPER NUMBER	
	,		2882		

DATE MAILED: 03/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/035,154	NOKITA, MAKOTO			
	Office Action Summary	Examiner	Art Unit			
		Allen C. Ho	2882			
Period fe	The MAILING DATE of this communication or Reply	appears on the cover sheet w	th the correspondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication reperiod for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a row, to reply within the statutory minimum of thin row will apply and will expire SIX (6) MON tatute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.		
Status						
1)[\]	Responsive to communication(s) filed on <u>0</u>	10 February 2004				
		This action is non-final.				
3)	,—		ers prosecution as to the merits i	c		
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	·	ei Ex parte Quayle, 1955 C.L	7. 11, 433 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1 and 36-39</u> is/are pending in the 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1 and 36-39</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction are	drawn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Example The drawing(s) filed on <u>04 January 2002</u> is Applicant may not request that any objection to Replacement drawing sheet(s) including the contraction of the oath or declaration is objected to by the	'are: a)⊠ accepted or b)⊡ o the drawing(s) be held in abeyar rrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121((d).		
Priority	under 35 U.S.C. § 119					
12)⊠ a)	Acknowledgment is made of a claim for force All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Busee the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	application No received in this National Stage			
Attachmer	· · ·					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948		Summary (PTO-413) s)/Mail Date			
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE er No(s)/Mail Date	_	nformal Patent Application (PTO-152)			

1. The previous office action was inadvertently labeled as a final rejection in the office

action summary. A final rejection would have been improper in view of the new ground of

rejection. Furthermore, amended claims contain subject matter, which was presented earlier

before the filing of an RCE, but was denied entry after final rejection because new issues were

raised that required further consideration and/or search. MPEP § 706.07 (b). Accordingly, the

finality of the previous office action has been withdrawn in order to correct for this mistake.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

3. Claims 1 and 36-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et

al. (U. S. Patent No. 6,181,773 B1) in view of Daniels et al. (U. S. Patent No. 4,160,906).

With regard to claim 1, Lee et al. disclosed an apparatus for radiographing an object,

comprising: an x-ray radiation unit (110) for radiating x-ray; a grid (42, 58, 140) arranged in an

x-ray radiation path; a grid movement controller (170) for changing a movement speed of the

grid by changing a turn speed of a motor (46), comprising a link mechanism (50) for changing a

turn movement of the motor into a straight movement of the grid; a sensor unit (54, 162) for

converting the x-ray into image data; an imaging controller (170) for controlling (i) the time for

the x-ray radiation unit to start radiating the x-ray, (ii) the time for the grid movement controller to start rotating the motor, and (iii) the time for the sensor unit to start storage, by associating one with another (column 5, lines 65-67; column 6, lines 1-4).

However, Lee et al. failed to teach an input unit for inputting information relating to a region of a body, wherein the image controller (a) selects a standard radiation exposure time and the turn speed based on the information input into the input unit, (b) controls the radiation exposure starting time of the x-ray radiation unit based on the selection, and (c) causes the grid movement controller to rotate the motor at the turn speed, and wherein the standard radiation exposure time is determined based on the maximum x-ray radiation time to be determined according to the region of the body.

Daniels et al. disclosed an input unit (Fig. 1) for inputting information relating to a region of a body (16). Daniels et al. taught that this input unit would enable selection of the proper parameters (e.g., kV, mA, exposure time) for any anatomical area with minimum deliberation on the part of the user, which facilitate rapid acquisition of uniform high quality x-ray images (column 4, lines 24-27).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide an input unit for inputting information relating to a region of a body so that the image controller could select appropriate exposure parameters based on the inputted information, since a person would be motivated to obtain a high quality x-ray image to facilitate with diagnosis by using exposure parameters that are appropriate to a particular region of a body.

With regard to claims 36-38, these claims fail to set forth any additional structural limitation. An apparatus must be distinguished from the prior art in terms of structure rather than function. MPEP § 2114.

With regard to claim 39, Lee et al. in combination with Daniels et al. disclosed an apparatus according to claim 1. However Lee et al. and Daniels et al. failed to teach that the apparatus further comprises a display.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a display unit, since a person would be motivated to look at an image and/or monitor feedbacks from the apparatus.

Response to Arguments

4. Applicant's arguments with respect to claims 1, 2, 12, 14, 22, 25, 27, 28, 34, and 35 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - (1) Neumann et al. (U. S. Patent No. 6,259,767 B1) disclosed an x-ray device comprising exposure parameters stored in a memory for various organs to be imaged.
 - (2) Strawder (U. S. Patent No. 5,737,386) disclosed an input unit for inputting information relating to a region of body.

Application/Control Number: 10/035,154

Art Unit: 2882

(3) Kleinman (U. S. Patent No. 4,403,337) disclosed automated setting of technic factors for x-ray examination.

Page 5

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/035,154 Page 6

Art Unit: 2882

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen C. Ho Patent Examiner Art Unit 2882

ACH

ACH 26.02.2004

EDWAAD J. GLICK SUREBVIRORY PATENT EXAMINER